



**Diagnostics and therapy
for chronic wounds**



DEBx Medical is a MedTech company that improves the quality of life of the millions of people suffering from chronic wounds. Our core values focus on delivering affordable treatments that are easy to use and implement in daily clinical practice.

DEBRICHEM

- Within one minute of topical application of a red gel intends to facilitate the removal of unhealthy tissue. The semi fluid substance containing an acid compound takes on the infection.
- This disruptive way of approaching debridement with the topical dehydrating agent intended for non-surgical debridement and treatment of non-surgical infected wounds, applied by healthcare professionals only is called DEBRICHEM.
- DEBRICHEM stands for debridement with Chemicals. It is a single use medical device that serves as a replacement for surgical debridement.
- DEBRICHEM is a red gel provided in a glass container (vial) with a black screw cap that is lined with Teflon on the inside.

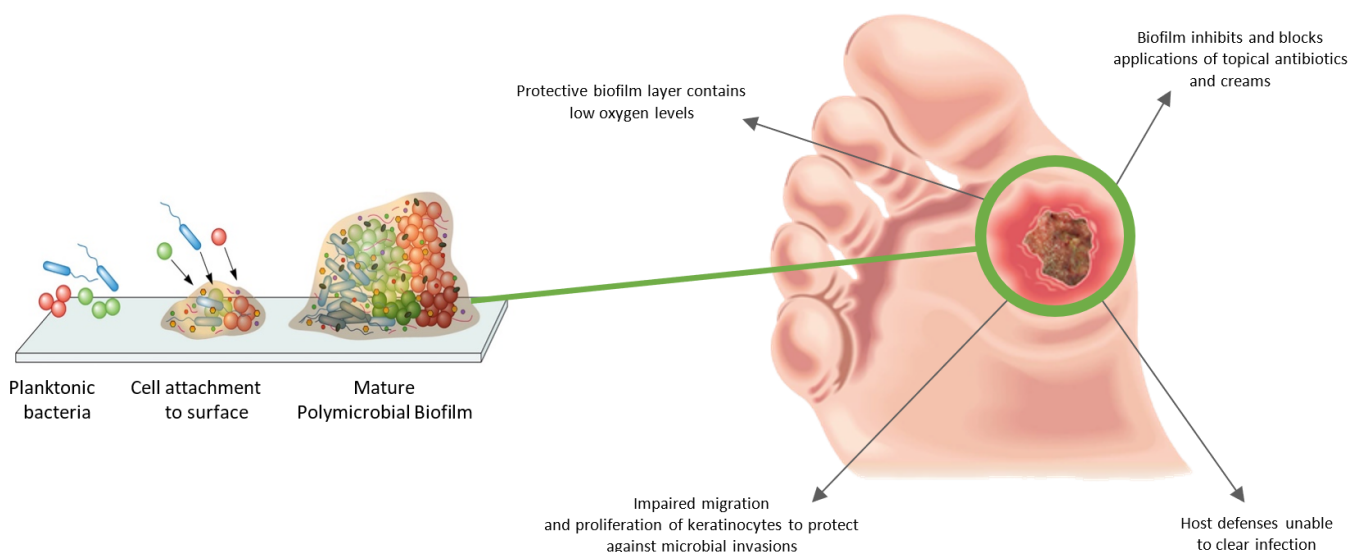


Note:

- Always consult the instruction for use and the indications, warnings and side effects.
- Always make sure to follow these steps as indicated in the instruction for use.

Biofilm

80% of chronic wounds have biofilm¹. A thin layer of glycoproteic material (biofilm) from actively replicating bacteria adheres to the lesion and results in recurring infections. Replicating bacteria that form the biofilm contribute to aggravating the lesions and delaying the healing process to the point that the wound becomes chronic. A Biofilm is a matured polymicrobial structure that embeds their own organisms and protects and nourishes them. Biofilm is invisible to the eye and it consists for 98% out of water.



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¹ Malone M, Bjarnsholt T, McBain AJ (2017) The prevalence of biofilms in chronic wounds: a systematic review and meta analysis of published data. J Wound Care26(1): 20–25

Working principle

- DEBRICHEM removes the biofilm and necrotic tissue from infected areas within 60 seconds of application.
- By instantly capturing water molecules from any type of biological material, DEBRICHEM has an immediate dehydrating effect.
- Since biofilm consists of 98% water, the wound tissue exposed to DEBRICHEM precipitates, coagulates together and separates from the underlying surface, causing the microbial constituents to denature.
- Once all non-vital tissue, pathogens and inflammatory proteins are removed, the normal wound healing process can restart.

Before application

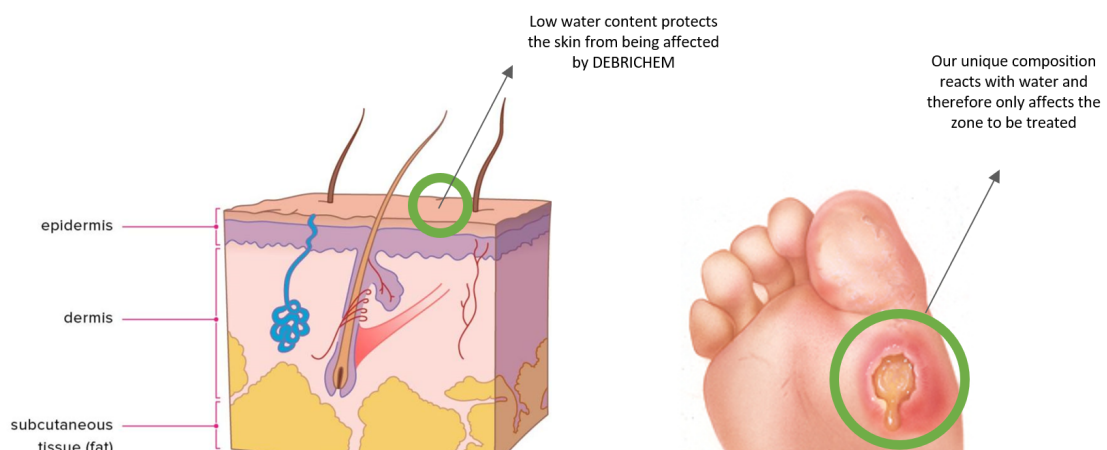
After application



Why doesn't DEBRICHEM affect the healthy tissue?

DEBRICHEM has a strong hygroscopic action by instantly capturing water molecules from any type of biological material. As the biofilm on a wound consists of 98% H₂O, the reaction denatures the proteins, extracellular matrix and the microbial constituents inside the biofilm. Giving bacteria, fungi and viruses no chance to survive and hereby removing the infection.

In contrast to the wound bed, healthy skin has a low water content. The low water content of the epidermal layer protects the surrounding skin from the desiccation effect. Due to our unique chemical composition, only the biofilm is affected.



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